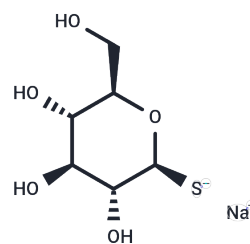


1-thio- β -D-Glucose (sodium salt)

Chemical Properties

CAS No. :	10593-29-0
Formula:	C ₆ H ₁₁ NaO ₅ S
Molecular Weight:	218.2
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	1-thio- β -D-Glucose is an analog of β -D-glucose in which sulfur replaces the hydroxyl group at the one position. The thiol group allows diverse chemical reactions, including click chemistry and polymerization. 1-thio- β -D-Glucose can be labeled with technetium-99m for analytical and diagnostic procedures. It can also be used as a substrate for glucose oxidase, which leads to the production of 1-thio- β -D-gluconic acid.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	DMSO: 10 mg/mL (45.83 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (45.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.583 mL	22.9148 mL	45.8295 mL
5 mM	0.9166 mL	4.583 mL	9.1659 mL
10 mM	0.4583 mL	2.2915 mL	4.583 mL
50 mM	0.0917 mL	0.4583 mL	0.9166 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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